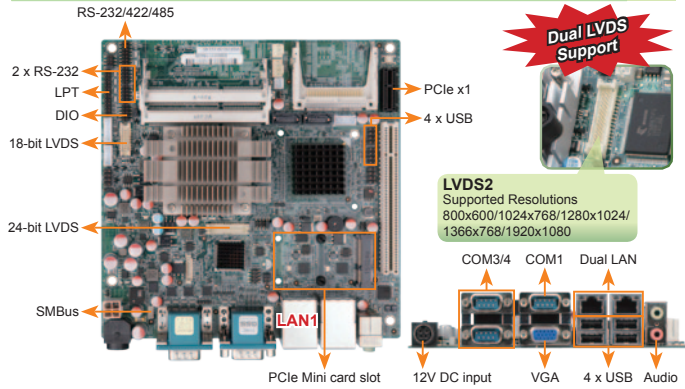


# KINO-PV-D4252/D5252

Mini-ITX SBC with Intel® Atom™ D425/D525, DDR3, VGA/18+48-bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS



**LVDS2**  
Supported Resolutions  
800x600/1024x768/1280x1024/  
1366x768/1920x1080



## Features

- Mini-ITX SBC with Intel® Atom™ D525/D425 processor
- Support 800 MHz DDR3 SO-DIMM socket (system max. 4 GB)
- Support 24-bit dual-channel LVDS with up to 1920x1080 resolution
- Complete I/O with eight USB, two SATA 3Gb/s, one CF Type II, six COM and audio
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
Intel® Atom™ D525 dual-core processor 1.8GHz/1MB L2 cache  
Intel® Atom™ D425 single-core processor 1.8GHz/512KB L2 cache
- ◆ Chipset: ICH8M
- ◆ BIOS: UEFI BIOS
- ◆ Memory  
Two 204-pin 800 MHz DDR3 SDRAM SO-DIMMs supported (system max. 4 GB) for D525/D425
- ◆ Graphics  
GMA 3150  
Graphics core speed 400 MHz for D525/D425
- ◆ Display Interface  
Analog CRT up to 2048x1536 for D525/D425  
Support CRT hotplug  
18-bit single-channel LVDS, up to WXGA 1366x768 or XGA 1024x768  
24-bit dual-channel LVDS by Novatek 68660UFG, up to 1920x1080
- ◆ Ethernet  
LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support  
LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ Audio: Realtek ALC662-GR HD Audio codec
- ◆ Digital I/O  
8-bit digital I/O (2x5 pin)
- ◆ Expansion  
1 x PCI slot  
1 x PCIe x1 slot  
1 x PCIe Mini card slot
- ◆ External I/O Interface  
3 x RS-232 4 x USB 2.0
- ◆ Internal I/O Interface  
1 x CF Type II 1 x KB/MS  
1 x LPT (2x13 pin, P=2.54)  
1 x RS-232/422/485 (2x7 pin, P=2.00)  
2 x RS-232 (2x5 pin, P=2.00)  
2 x SATA 3Gb/s 4 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply  
12V, AT/ATX power mode  
1 x External 4-pin DIN DC jack  
1 x Internal 4-pin (2x2) power connector
- ◆ TPM (optional): On-board Infineon SLB9635TT1.2
- ◆ Fan Connector  
1 x CPU smart fan (1x4 pin)  
1 x System fan (1x3 pin)
- ◆ Power Consumption  
12V@1.95A (Intel® Atom™ D525 1.8GHz with two 1 GB DDR3)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Weight: GW: 800g/NW: 340g

## Packing List

1 x KINO-PV-D4252/D5252 single board computer	1 x Mini jumper pack
1 x I/O shielding	1 x One Key Recovery CD
1 x RS-232 cable with bracket	1 x QIG
1 x SATA with power cable	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-PV-D5252-L2-R11	Mini-ITX SBC with Intel® Atom™ D525 1.8GHz, DDR3, VGA/18+48 bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
KINO-PV-D4252-R11	Mini-ITX SBC with Intel® Atom™ D425 1.8GHz, DDR3, VGA/18-bit LVDS, dual GbE, audio, USB 2.0 and SATA 3Gb/s, RoHS
19800-003100-300-RS	Dual-port USB cable
19800-004300-100-RS	RS-232/422/485 cable with bracket
19FFD124010HB2A7-000001-RS	CPU fan
32000-023800-RS	PS2 KB/MS cable
32100-192900-RS	One 4-pin (2x2) to one 4-pin (1x4) DC power cable with terminal block
32200-015100-RS	LPT cable
34000-000510-RS	30mm higher heatsink
PCIER-K101L-R10	PCIe x1 riser card

www.ipc2u.ru

www.ipc2u.de

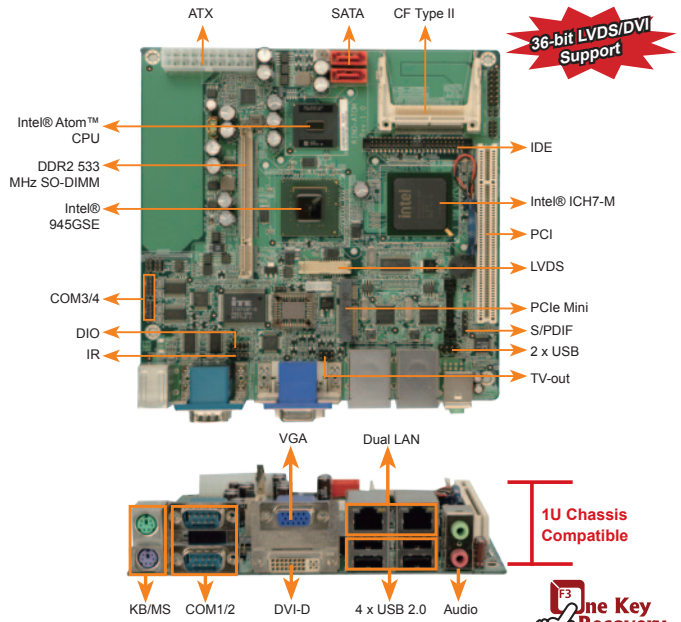
www.sovio.com

Date:01.06.2016

KINO-PV-D4252/D5252-2016-V10

# KINO-945GSE-R12

Mini-ITX SBC with Intel® Atom™ N270 1.6GHz, VGA/DVI/TV, dual PCIe GbE, USB 2.0, SATA and audio



## Features

- Intel® Atom™ processor N270 1.6GHz with ultra low voltage fanless support
- 400/533 MHz DDR2 SO-DIMM memory support up to 2 GB
- Dual display supported by VGA + DVI-D, LVDS + VGA, LVDS + DVI-D
- Support PCIe Mini slot and PCI slot for expansion
- Support six USB 2.0, two SATA, four COM
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU  
Intel® Atom™ processor N270 1.6GHz with a 533 MHz FSB
- ◆ System Chipset  
Intel® 945GSE + ICH7M
- ◆ BIOS  
AMI BIOS
- ◆ Memory  
One 200-pin 400/533 MHz DDR2 SDRAM SO-DIMM supported (system max. 2 GB)
- ◆ Ethernet  
Dual LAN: Realtek 8111CP PCIe GbE controller
- ◆ External I/O Interface  
1 x KB/MS 2 x RS-232  
4 x USB 2.0
- ◆ Internal I/O Interface  
1 x CF Type II 1 x IDE  
1 x KB/MS 1 x RS-232 (2x5 pin, P=2.00)  
1 x RS-232/422/485 (2x5 pin, P=2.00)  
1 x SATA 3Gb/s 2 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Graphics: Intel® Graphics Media Accelerator 950
- ◆ Display Output  
VGA integrated in Intel® 945GSE  
Support HDTV resolution up to 1080i by component interface  
18-bit dual-channel LVDS by Intel® 945GSE  
DVI-D supported by Silicon Image SiI1362
- ◆ Expansion  
1 x PCI, 1 x PCIe Mini card slot
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Infrared Interface by pin header
- ◆ Audio  
Realtek ALC655 AC'97 codec
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply  
AT/ATX power support
- ◆ Power Consumption:  
2.89A@5V, 0.04A@12V (Intel® Atom™ N270 with 1 GB DDR2)
- ◆ Operating Temperature  
KINO-945GSE-N270-R11:  
Operating: 0°C ~ 60°C (32°F ~ 140°F)  
Storage: -20°C ~ 70°C  
KINO-945GSE-N270W-R11:  
Operating: -20°C ~ 70°C  
Storage: -30°C ~ 80°C
- ◆ Humidity Operating  
5% ~ 95%, non-condensing
- ◆ Dimensions  
170mm x 170mm
- ◆ Weight: GW: 1100g/NW: 370g

## Packing List

1 x KINO-945GSE single board computer	1 x Mini jumper pack
1 x Dual RS-232 cable	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
2 x SATA cable	1 x Utility CD

## Ordering Information

Part No.	Description
KINO-945GSE-N270-R12	Mini-ITX SBC with Intel® Atom™ N270 1.6GHz, VGA/DVI/TV, dual PCIe GbE, USB 2.0, SATA and audio
KINO-945GSE-N270W-R12	Mini-ITX SBC with Intel® Atom™ N270 1.6GHz, VGA/DVI/TV, dual PCIe GbE, USB 2.0, SATA and audio, -20~70°C
19800-003100-300-RS	Dual USB cable
32102-000100-200-RS	SATA power cable
32200-000009-RS	44-pin 2.5" IDE cable
32200-833600-RS	RS-422/485 cable